



## **Tree Ring Natural History Fountain Pen**

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Tree Ring LLC was founded in 2009 to manufacture and sell fine writing instruments and watches that commemorate milestones of individuals, society, and natural history through the growth rings of a tree. Trained as a forest ecologist, Dave Wager came up with the idea for the tree ring pen while in graduate school. While spending hours in the research lab counting and measuring tree rings, he discovered that a tree's rings could be displayed beautifully on a wooden pen. By removing a cross-section of wood from a log, Wager could form a pen blank that included tree's annual growth rings, from the center pith to the outer layer of bark. The pen-making remained a hobby while Wager pursued a career promoting responsible forestry through the Forest Stewardship Council. In 2009, Wager decided to turn the hobby into a business and launched Tree Ring LLC. In 2011, Wager began designing a watch with a slice of a very small tree as the face of the watch. After three years of tinkering, the Tree Ring watch was launched in the fall of 2014.

### **Natural History Rollerball**

With a chronology spanning early 1900's to 2014, these pens are the perfect gift for commemorating wedding anniversaries, birthdays, retirements, corporate anniversaries, and other milestones. The year(s) of special significance inscribed on the pen corresponds exactly to the year the wood formed in the tree that became the pen. The Douglas-fir tree used to make this pen had sprouted in Western Montana in the early 1900's. In 2014 the tree was harvested as part of a forest restoration project.

This pen features a magnetic cap that also posts on the end of the pen. Available in chrome, gold, or black titanium, this pen is made of high quality components. It comes with a premium Schmidt rollerball cartridge. The first

and last year of the tree's chronology are automatically included on the pen. Each pen will vary in origin date and grain pattern. As an option, additional year(s) or initials can be added to your pen by completing above field(s).

## Natural History Ballpoint Twist Pen



The chronology of these pens spans from the early 1900's to 2014. The Douglas-fir tree used to make this pen had sprouted in Western Montana in the early 1900's. In 2014 the tree was harvested as part of a forest restoration project. The pen can be customized with dates or initials to make the perfect commemorative gift. Year(s) of special significance inscribed on the pen will correspond to the year the wood formed in the tree that became the pen.

This pen functions as a twist pen. Available in gun metal black titanium, this pen is made of high quality components. It comes with an exceptionally good ink cartridge- the Schmidt Easy Flow 9000. The first and last year of the tree's chronology are automatically included on the pen. As an option, additional year(s) or initials can be added to your pen by completing above field(s).

The pen comes with a beautiful wooden case for displaying both the pen and an information card describing the tree ring/natural history and forest restoration. Each pen will vary in origin date and grain pattern.

## Silva Commemorative

The Silva Commemorative is made using a custom wood dial with an origin year of your choice. Match the watch origin year with your birth, anniversary, or other memorable year. Some years may not be readily available at this time, as such delivery may take up to 4-5 weeks.



Dials are crafted from thin slices of very small Douglas-fir trees harvested from forests of western Montana. These wood dials are hand selected for their beauty and unique annual tree ring history. With decades of growth rings displayed on each timepiece, hours, minutes, and seconds are juxtaposed against years. Underneath each wood dial sits a Swiss made quartz movement. The watch is enclosed by a high quality stainless steel case and a sapphire crystal. The origin year of the chronology, ranging from 1950-1985, is marked near the center of the tree. This year represents when the tree was small seedling. Hand crafted in the Big Sky Country of Montana.

## **Ballpoint refill**

Piper Premium Ink Ultra-Glide 1000 Standard Ballpoint Refill. This is the most common ballpoint refill shape in the world (Parker style). Fits many many brands including all Tree Ring ballpoints. [3.88" long] - The Piper Ultra-Glide is so smooth you might think it is a rollerball, but with the long lasting, clean writing of a ballpoint.

## **Tree Ring Science**

A tree grows from the center- each year adding another ring onto its stem. Tree ring records show the range of nature's conditions, for example temperature variations between summer and winter are responsible for the light and dark bands within a given annual ring. Large year-to-year fluctuations in precipitation, as is the case throughout much of the western U.S., cause narrow rings during and following dry periods and wider rings during or following wet years. The Tree Ring pens and watches are made using tree ring analysis techniques.

Tree ring science or dendrochronology includes the dating of annual rings and analyzing patterns, such as width, density, and chemical composition. Dendrochronology relies on the principle that tree growth proceeds only as fast as allowed by the most limiting factor. Throughout much of the semiarid western US, water limits tree growth. In a tree-ring series, abnormally wet and dry years will produce wide and narrow annual growth rings, respectively. For a given climatic region, tree-ring widths will share similar

patterns of wide and narrow rings referred to as common variance. Cross-dating is a visual comparison of the common variance from numerous trees of the same climatic region. By chronologically ordering the wide and narrow rings of trees from a given climatic region, cross-dating assures that each tree ring is dated correctly to the calendar year of formation. Tree Ring Pens have all been dated using these scientific principles.

## Gifts



A tree marks the passing of each year with a distinct growth ring. As such a Tree Ring gift embodies time, our most precious resource. Hours, minutes, and seconds are juxtaposed against decades of annual growth rings in our timepieces. The century of annual growth rings featured in each writing instrument show the events that shaped an individual tree, a forest, and the American West. Custom engraving options allow you to commemorate a meaningful occasion in your life. Order your gift now and create a keepsake that will be cherished for a lifetime.

**For more information please visit**

**<http://www.treeringpens.com>**